

### Abstract of the Disclosure

Fuel processors and fuel processing and fuel cell systems containing the same. The fuel processor is adapted to produce a product hydrogen stream from a feed stream, such as at least one of water and a carbon-containing feedstock, which may be one or more hydrocarbons or alcohols. In some embodiments, the fuel processor is a steam reformer containing a separation region in which the reformat stream is purified using a pressure-driven separation process. In some embodiments, the fuel processor includes a filter assembly adapted to remove particulates from the reformat stream prior to delivery to the separation region. In some embodiments, the fuel processor contains one or more cartridge-based components to facilitate easier removal and replacement of these components. In some embodiments, the fuel processor includes an air delivery system adapted to regulate the operating temperature of the fuel processor.